KORTH

KORTH-Semi-Automatic Pistol

Technical Data and Operating Instructions

Raw Steel Transformed Into Precision

KORTH-Semi-Automatic Pistol
Technical Data and Operating Instructions

Contents:

1 General Function:

1.1 Special Design Features.
1.2 Technical Data.
1.3 Function.
1.3.1 Condition III.
1.3.2 Condition II.
1.3.3 Condition I.

2 Loading:

2.1 Decocking.
2.2 Unloading.
2.3 Firing the Pistol.
2.4 Shooting SA.
2.5 Shooting DA.
2.6 Sight Adjustment.
2.7 Field-Stripping.
2.8 Safety Rules.
2.9 Firing Pin Safety.

Technical description of the Korth-Pistol

1 General Function:

Like all Korth products, the Korth semi-automatic pistol is made entirely of steel. There are no cast, plastic or non-ferrous materials used in its manufacture. The pistol is distinguished by its simple operation, positive function and by the ruggedness of its individual parts. The pistol is a locked breech, recoil operated semi-automatic, i.e. the barrel is locked together with the slide until the bullet has left the barrel. After a travel of ca. 10mm, the slide unlocks by means of a cam and the barrel is retained by the frame. The slide extracts the cartridge case and continues rearward until it is stopped by the frame itself. The case is ejected during the final phase of the slide's rearward movement. Feeding from the magazine occurs during the forward movement of the slide to battery position. The feed ramp is built into both the frame and the breech of the barrel. A disconnector, built into the trigger bar, eliminates the possibility of the pistol going into full auto.

1.1 Special Design Features:

- All parts are of special, hardened, chromium, alloy steel.
- locked breech recoil operation with a large locking wedge (locking area = 54 mm^2).
- robust and simple components made from forgings give greater reliability and longer life.
- less recoil and muzzle rise due to the long recoil time.
- reliable ignition because the SA and DA hammer throw are the same length.
- barrel remains parallel to the frame during the entire recoil movement.
- rebounding hammer moves into a safety notch as soon as the pistol is decocked.
- fully adjustable rear sight.
- precision downrange performance with simple operation.
- manual, external firing pin safety (optional).
- loaded chamber indicator.

1.2 Technical Data:

Mechanism: locked breech recoil operated.
Breech system: locking wedge.
Number of components: 65.
Magazine capacity: 10 cartridges (9mm Parabellum or 9 x 21mm IMI).
9 cartridges (.357 SIG or.40 S & W).
Barrel length: 102mm (4").
Overall length: 206mm (8.1").
Overall height: 148mm (5.8").
Overall width: 33mm (1.3").

Caliber 1: .40 S & W.
6 grooves/right hand twist.
Bore diameter: 10.03mm (.395").
Groove diameter: 10.19mm (.401").

Caliber 2: .357 SIG.
6 grooves/right hand twist.
Bore diameter: 8.79mm (.346").
Groove diameter: 9.02mm (.355").

Caliber 3: 9mm Parabellum.
6 grooves/right hand twist.
Bore diameter: 8.82mm (.347").
Groove diameter: 9.02mm (.355").

Caliber 4: 9 x 21mm IMI.
6 grooves/right hand twist.
Bore diameter: 8.82mm (.347").
Groove diameter: 9.02mm (.355").

Sight dimensions:
Line of sight height (above hand): 40mm (1.6").
Sight adjustment: via slotted head screws.
Sight radius: 154mm (6").
Blade width: 3.5mm (.138").
Blade height: 3.6mm (.142").
Notch width: 3.6mm (.142").
Notch depth: 2.0mm (.079").

Grip dimensions:
Grip length: 97mm (3.8").
Grip width: 47–54mm (1.8–2.1").
Grip thickness: 30mm (1.2").
Grip angle: 70 degrees.
Length of pull: 74mm (2.9").
Grip material: Walnut.

Trigger system: Traditional DA/SA.
Trigger width: 7.9mm (.311").
SA trigger pull: 15N (ca. 3.3 lb).
DA trigger pull: 50N (ca. 11 lb).
SA trigger travel: 2.3mm (.091").
DA trigger travel: 13.3mm (.524").

Weight:
Unloaded gun weight: ca. 1240g (2.73 lb).
Loaded gun weight: ca. 1362g (3.00 lb).

1.3 Function:

When discussing self-loading weapons, one must differentiate between the various conditions of readiness. These have a decisive influence on the function and safety in handling of the weapon itself.

1.3.1 Condition III:

- The magazine is loaded and is inserted in the magazine well.
- The chamber is empty.
- The hammer is not cocked and rests in the safety notch provided
- The gun cannot be fired in this condition.

1.3.2 Condition II:

- The magazine is loaded and is inserted in the magazine well.
- A cartridge is in the chamber.
- The hammer is not cocked and rests in the safety notch provided
- The gun can be fired in the DA mode (11 lb trigger pull).

After firing this shot in the DA mode, the weapon will cycle, putting a new cartridge into the chamber and prepare the remaining shots to be fired in a SA mode (unless the weapon is decocked).

1.3.3 Condition I:

- The magazine is loaded and is inserted in the magazine well.
- A cartridge is in the chamber.
- The hammer is cocked and is engaged in the full-cock notch.
- The gun can be fired in the SA mode (caution: 3.3 lb trigger pull).
- due to the light trigger pull in this condition extreme care must be exercised in handling the gun.

After firing this shot in SA mode, the weapon will cycle, putting a new cartridge into the chamber and prepare the remaining shots also to be fired in SA mode (unless the weapon is decocked).
In order to bring you a more perfect product, we reserve the right to make technical changes as the need may arise.
Operating instructions of the pistol:

2 Loading:

Before loading the magazine and/or the chamber, please be certain that the ammunition corresponds with the caliber marked on the gun and that all necessary safety checks have been carried out.

Loading proceeds as follows:
1. Press magazine release and remove the magazine.
2. Load the magazine by inserting the cartridges one at a time (capacity is commensurate to caliber).
3. Insert the magazine in the magazine well until it catches with an audible “click”. (The pistol is in Condition III).
4. Pull the slide back as far as it will go and release it, ergo allowing it to spring forward unhindered. (The pistol is now in Condition I and is ready to fire.)

2.1 Decocking:

If you have loaded the pistol according to the above instructions, the hammer will be cocked and a cartridge will be in the chamber. The pistol is ready to fire immediately. Due to the light trigger pull and for reasons of safety, the pistol should be in this condition of readiness only immediately before you intend to commence firing. Should you, however, wish to carry the pistol ready to fire or otherwise have it fully loaded in a high state of readiness, it is necessary to decock the pistol as follows: 1. Apply the firing pin safety lever, so as to prevent any discharge.
2. Securely hold the hammer back with the thumb of the shooting hand.
3. With the hammer held back, pull the trigger and at the same time allow the hammer to move just a few millimeters forward.
4. Release the trigger and let the hammer continue down until it engages in the safety notch. This procedure is identical to that used when decocking a double-action revolver. The hammer is now decocked, it rests in the safety notch and the pistol may only be fired by pulling the trigger in the DA mode and by disengaging the firing pin safety. By simply cocking the hammer, the pistol may be fired in the SA mode if the firing pin safety has been disengaged.

2.2 Unloading:

When unloading, attention must be paid to whether there is a cartridge in the chamber and whether there is a magazine in the magazine well. The pistol is unloaded as follows:

1. Keep your fingers away from the trigger and ensure that the muzzle is pointing in a safe direction during all of the following manipulations. Remember: a gun must be considered loaded until you personally have determined otherwise!

2. Press the magazine release and remove the magazine.

3. Holding the pistol grip with one hand and keeping the barrel in a safe direction, use the other hand to grasp the slide by the serrations and pull the slide back to its rearmost position. Holding the slide in this
position, use your thumb to push the slide catch up as far as it will go. Holding the slide catch up as far as possible, slowly release the slide until it remains in its rearmost position on its own (held in place by the slide catch). If there was a cartridge in the chamber, it would have been extracted and ejected as you pulled the slide back.

4. Visually ascertain that there is no cartridge in the chamber!

5. Remove cartridges from the magazine by pushing them out one at a time.

6. Press slide catch down. The slide will automatically go to its forward battery position. Decock as in 2.1.

7. The empty magazine may now be inserted into the magazine well. Should you, for whatever reason, not wish to unload the magazine, then we recommend that you remove two or three cartridges so that the magazine spring will not be unduly stressed over a long storage period.

2.3 Firing the pistol:
As a general rule, oil all moving parts before firing.

2.4 Shooting Single-Action (SA):
When a cartridge is in the chamber, cocking the hammer with the thumb prepares the pistol for firing SA. A pressure of only about three pounds on the trigger will cause the hammer to fall and the gun to fire. Loading and cocking occur automatically due to the recoil operation of the mechanism. This will reoccur each time the trigger is pulled until the magazine is empty. After the last cartridge in the magazine has been fired, the slide remains in its rearmost position. A loaded magazine may be inserted at this time and firing may be continued by pressing downward on the slide catch which will release the slide, thus enabling further firing in the SA mode.

2.5 Shooting Double-Action (DA):
With a cartridge in the chamber and the hammer decocked, the pistol may still be immediately fired by simply pulling the trigger all the way back (DA mode). The trigger travel is considerably longer and about eleven pounds pressure is required to release the shot. This is necessary since the trigger combines the double function of both cocking as well as tripping the hammer. Only the first shot need be released in the DA mode since the automatic cycling of the slide cocks the hammer for the next shot and all following shots are fired in SA mode.

Failure to fire:
Should the pistol, due to faulty ammunition, fail to fire immediately, continue holding the pistol in the firing stance pointing downrange and pull the trigger once again. DA mode will be necessary to perform this procedure. Normally, a second hammer blow will ignite most defective cartridges. If the cartridge does not fire after a second blow from the hammer, hold the pistol in the firing stance pointing downrange for at least thirty seconds, in case the cartridge “hangfires”. If, after this time, the shot does not take place, extract and eject the defective cartridge by pulling the slide all the way back. You may then continue firing by releasing the slide and pulling the trigger in SA mode as described above.

WARNING!
In case of a failure to fire, always keep the muzzle pointed downrange and never attempt to recock the hammer by hand! A “hangfire” at this point could result in personal injury to the shooter as well as bystanders.

2.6 Sight Adjustment:

The pistol is factory adjusted to hit point of aim at 25 meters. Should you, for whatever reason, wish to change the point of impact, this may be accomplished with the fully adjustable rear sight. Total elevation range is approximately 65cm (25") and is click-adjustable. Windage is infinitely adjustable over its entire range.

2.7 Field-Stripping:

The pistol can be easily stripped for cleaning and general maintenance, using no tools, into the following major assemblies:

- Frame complete with firing mechanism.
- Barrel with barrel shroud assembly.
- Locking wedge.
- Disassembly lever.
- Recoil spring with guide pin.
- Slide complete with firing pin and safety lever.

Please refrain from attempting to disassemble the pistol any further and do not disassemble the magazine. Not only are special tools and knowledge required, but you run the risk of scratching the finish, damaging screw heads and otherwise ruining the visual aspects of the gun, as well as involving safety issues!

Field-stripping proceeds as follows:

Make sure the gun is unloaded!

1. Press the magazine release and remove the magazine.
2. Pull the slide all the way back and hold it there with the slide catch.
3. Rotate the disassembly lever clockwise 90° downwards and remove it from the frame.
4. Holding the pistol horizontally, release the slide catch, allow the slide to go forward and remove the slide from the frame.
5. Lift out the locking wedge. Pull the barrel assembly forward until it stops and lift it out of the slide rails.
6. The recoil spring may now be removed from the frame simply by pulling it forward and out.

Reassembly is accomplished in exactly the opposite order. It is not necessary to use force in either the disassembly or the reassembly of the pistol. Should you have problems in either the disassembly or the reassembly of the pistol, please consult your KORTH dealer for help and advice.

2.8 Safety Rules:

Some special words for your own safety Read the instructions and warnings in this document carefully before using the Korth Automatic Pistol!
The instruction manual, together with our safety instructions should always accompany this firearm and be transferred with it upon change of ownership, or when the firearm is loaned or presented to another person.

2.9 Firing Pin Safety:

The pistol is equipped with an external manual firing pin safety which is easily operated: • Safety engaged if **“S”** is visible. • Safety disengaged if **“F”** is visible.

Firearms safety – your responsibility
Safety must be the first and constant consideration of every person who handles firearms and ammunition. The instruction manual is designed to assist you in learning how to use and care for your KORTH Automatic Pistol properly. Only when you are certain you fully understand the manual, and can properly carry out its instructions, should you practice loading, unloading, etc. with live ammunition. If you have any doubts about your ability to handle or use a gun safely, then you should seek supervised instruction. Such personalized instruction is available from a KORTH dealer. The person with a gun in their possession has a full-time job. He / She can not guess; he / she can not forget. He / She must know how to use his firearm safely. Do not use any firearm without having a complete understanding of its particular characteristics and safe use.

Alteration warning:

KORTH will not be responsible for any alteration of any part of this firearm after it leaves our control, or for the addition or substitution of parts or accessories not manufactured by KORTH. This product was designed to function properly in its original condition. Any changes made in this product are specifically contrary to our instructions and we expressly do not authorize any changes to be made after manufacture. Do not jeopardize your safety or the safety of others by making modifications to your firearm!

(We reserve the right to make technical changes without warning as they become necessary.)

Parts list

1. Frame
2. Take-down lever
3. Detent ball
4. Sideplate
5. Trigger axis pin
6. Trigger bushing
7. Trigger
8. Trigger return spring
9. Magazine release pin
10. Magazine release spring
11. Retaining pin
12. Magazine release
13. Recoil spring
14. Recoil spring guide
16. Ejector
17. Ejector retaining pin (2x)
19. Hammer axle
20. Sear
20-1. Sear spring
21. Sear retaining pin
22. Hammer
23. Eccentric cam
23-1 Pin for eccentric cam
24. Mainspring strut pin
25. Mainspring strut
26. Mainspring
27. Mainspring support
28. Trigger bar spring
29. Trigger bar
30. Slide catch
31. Slide catch spring
34. Locking block
36. Slide
37. Extractor
37-1. Extractor pin
37-2. Extractor spring
38. Firing pin return spring
39. Firing pin
40. Firing pin support
41. Barrel shroud
42. Barrel
43. Lock ring
44. Barrel stop
45. Barrel stop spring
46. Rear sight leaf pin
47. Rear sight leaf spring
48. Windage screw retaining pin
49. Rear sight notch
50. Windage screw
51. Sight leaf spring
52. Elevation screw
53. Detent ball spring
54. Detent ball
55. Rear sight leaf
56. Follower
57. Magazine housing
58. Floor plate retainer
59. Floor plate
60. Magazine spring
61. Grip plate right
62. Backstrap
63. Grip plate left
64. Bushing
65. Grip screw
66. Backstrap holding pin

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